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Mar 8, 1989

DERWENT-ACC-NO: 1989-069997

DERWENT-WEEK: 198910

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TITLE: Recycling plant for mixed waste - has coarse shredding followed by airflow sifting to separate light and heavy components

INVENTOR: KNORZER, W

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SAARBERG-FERNWARME

SAARN

PRIORITY-DATA: 1987DE-3728899 (August 29, 1987)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/>	<u>EP 305782 A</u>	March 8, 1989	G	005	
<input type="checkbox"/>	<u>DE 3728899 A</u>	March 16, 1989		000	
<input type="checkbox"/>	<u>DE 3728899 C</u>	August 23, 1990		000	

DESIGNATED-STATES: AT BE CH DE FR GB IT LI NL

CITED-DOCUMENTS: 1.Jnl.Ref; A3...199015 ; DE 2931813 ; DE 3042899 ; EP 54754 ; FR 2377238 ; No-SR.Pub ; US 3790097 ; US 4174075 ; US 4537877

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 305782A	August 11, 1988	1988EP-0113045	

INT-CL (IPC): B03B 9/06; B09B 3/00; D21B 1/08

ABSTRACTED-PUB-NO: EP 305782A

BASIC-ABSTRACT:

After initial manual and magnetic sorting followed by sifting, the mixed waste is than coarsely shredded and then blown with air to separate the light sections from the heavy. This separates out the paper from the plastics film and enables each to

be collected for separate disposal. The remainder is further shredded and reduced in a hammer mill for subsequent sorting.

The coarse shredder feeds into the sifter from where the waste is further reduced by the selective shredder/reducer. This is then blown by a blower, dried and filtered. Fibre residues are used as wadding or can be made into sacking or added to paper making. The waste paper can be burnt for heating while the plastic waste is returned in granular form.

ADVANTAGE - Efficient separation, no additional cleaning required.

ABSTRACTED-PUB-NO:

DE 3728899C

EQUIVALENT-ABSTRACTS:

Paper and plastics foils are separated from domestic rubbish and a screening is followed by a selective comminution and air separation. The separated plastics foils from the light sifting fraction can be further separated in PE, PP and PVC.

The separated fibre material can be compressed to fuel briquettes, pressed to bales as raw material for the paper manufacture or used loose in bags as absorbent in case of oil spillage accidents.

ADVANTAGE - This separates paper and plastics, foils and suggests ways of recycling them. (4pp)

CHOSEN-DRAWING: Dwg.0/1

TITLE-TERMS: RECYCLE PLANT MIX WASTE COARSE SHRED FOLLOW AIRFLOW SIEVE SEPARATE LIGHT HEAVY COMPONENT

DERWENT-CLASS: P41 P43

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1989-053467

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